# **LMA District Cover Sheet**

**Spring 2017 Levee Inspection Results** 

# **Sutter Maintenance Yard Tisdale Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)	
† Overall LMA Rating (Fall Only)					
	** Non-receipt of Summ Reports may effect ov				
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not determ			ual maintenance	
FALL INSPECTIONS: The overall maintena within the attached u			tion and maintenance de ended to be an indiction o		
Comments					
					_

#### **Unit Cover Sheet**

**Spring 2017 Levee Inspection Results** 

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles
Unit No. 01 Tisdale Bypass	Left	4.51

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/7/2017 - 4/7/2017			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

#### **Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start		Rating **	Α	Issue No.		2	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitude	e/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_ST0	009_01_s _ 201	3_2				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
Sutter Yard has the O&M manuals.							

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory			Start		End		
Emergency Supplies &					0		0
пеш	Equipmer	nt			0		0
DWR ID	DWR_ST0	009_01_s _ 201	3_4				
		Comn	nent Cod	de			

No Photos

Inspector Comment
Sutter Yard has a stockpile of emergency supplies and equipment.

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		0		0
пеш					٥		0
DWR ID	DWR_ST0	009_01_s _ 201	3_5				
		Comn	nent Cod	le			
Inspector Comment							
Sutter Yard	d had flood	d fight training	October	2016.			

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	0.03	Rating **	М	Issue No.		10	
LM End	0.03	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		39.0272	253°	39.027253 °	
пеш			-121.8213	30°	-121.821330 °		
DWR ID	DWR_ST0	009_01_f _ 2016	6_10				
		Comn	nent Cod	le			
V1 : Contreasements	,	grass and wee	ds on th	e levee slo	pes a	and	
Inspector Comment							

Photo 1 of 1 : SP\_2017\_ST0009\_286\_10\_20170315\_00002.jpg



View of grass taller than 12 inches blocking visibility.

LM Start	0.21	Rating **	М	Issue No.		15
LM End	0.21	Issue Type +	En	Location *	WS	
Category	Earthen L	GPS La	atitud	e/Longitude		
Category				Start		End
Item	Encroach		39.0281	43°	39.028143°	
nem				-121.8180	90°	-121.818090 °
DWR ID	DWR ST0009 01 s 2017 15					

#### Comment Code

TR : Tree or limb

#### Inspector Comment

Remove the tree from the waterside slope and toe.



View of the tree along the waterside slope and toe.

LM Start	1.28	Rating **	М	Issue No.		16	
LM End	1.28	Issue Type +	En	Location *	CR		
Category	evee	GPS La	titud	le/Longitude			
Category				Start		End	
Item	Encroach	ments		39.0282	65 °	39.028265 °	
пеш			-121.7983	70°	-121.798370 °		
DWR ID DWR_ST0009_01_s _ 2017_16							
Comment Code							

# TR : Tree or limb

#### Inspector Comment

Remove the tree from the waterside slope and toe.



View of the tree along the waterside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.11	Rating **	М	Issue No.		11
LM End	2.11	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee GPS Latitude/Lo			le/Longitude		
Calegory				Start End		
Item	Animal Co	ontrol		39.0283	92°	39.028392°
item				-121.7828	37°	-121.782887°
DWR ID DWR_ST0009_01_f _ 2016_11						
		Comn	nent Cod	le		

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

#### Inspector Comment



View of the rodent holes along the landside slope.

LM Start	2.14	Rating **	A/W	Issue No.		25	
LM End	2.14	Issue Type +	Ма	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory		Start		End			
Item	DWR UCI	P LMA Respo	nsibility	39.0281	32°	39.028132	
iteiii				-121.7823	89°	-121.782389	
DWR ID							

# Comment Code

#### Inspector Comment

FS\_ID:51484 DS ID:16591 EP\_NO: 10099

Repair Type: No Action Needed

Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to

report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013

Same as last inspection.

FIELD\_STRUCT\_DESC: 1 of 2: 48-inch by 84-inch (4-foot by 7-foot) reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:05 AM

#### Photo 1 of 3: UCIP\_SP\_2017\_51484\_64226.jpg



Slide gates on WS shoulder.

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		25 (cont)	
LM End	2.14	Issue Type +	Ma	Location *		LS	
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory	Ory			Start		End	
Item	DWR UC	P LMA Respo	onsibility	39.0281	32°	39.028132	0
пеш				-121.7823	89 °	-121.782389	0
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:51484 DS\_ID:16591 EP NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 1 of 2: 48-inch by 84-inch (4-foot by 7-foot) reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:05 AM

LM Start	2.14	Rating **	A/W	Issue No.	25 (cont)
LM End	2.14	Issue Type +	Ma	Location *	LS

# Photo 2 of 3: UCIP\_SP\_2017\_51484\_64225.jpg



Wooden Flap gates on WS toe.

#### Photo 3 of 3: UCIP\_SP\_2017\_51484\_64224.jpg



Pump house on LS toe.

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		26		
LM End	2.14	Issue Type +	Ма	Location *		LS		
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UC	IP LMA Respo	nsibility	39.02812	4°	39.028124°		
пеш				-121.78234	4°	-121.782344°		
DWR ID								

#### Comment Code

#### Inspector Comment

FS\_ID:51485 DS\_ID:16856 EP\_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 2 of 2: 48-inch by 84-inch (4-foot by 7-foot) concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pumphouse located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:37 AM

LM Start	2.14	Rating **	A/W	Issue No.	26 (cont)
LM End	2.14	Issue Type +	Ma	Location *	LS

### Photo 1 of 3: UCIP\_SP\_2017\_51485\_64230.jpg



Slide gates on WS shoulder.

#### Photo 2 of 3: UCIP\_SP\_2017\_51485\_64229.jpg



Wooden flap gates on WS toe.

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		26 (cont)
LM End	2.14	Issue Type +	Ma	Location *		LS
Category	Supplemental			GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	onsibility	39.02812	4 °	39.028124
nem				-121.78234	4 °	-121.782344
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:51485 DS\_ID:16856 EP\_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 2 of 2: 48-inch by 84-inch (4-foot by 7-foot) concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pumphouse located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:37 AM

#### Photo 3 of 3: UCIP\_SP\_2017\_51485\_64228.jpg



Pump house on LS toe.

LM Start	2.16	Rating **	U	Issue No.		12
LM End	2.16	Issue Type +	Ма	Location *	LS	
Category	Earthen L	evee		GPS Latitude/Longitude		
Category			Start		End	
Item	Animal Co	Animal Control			37°	39.028137°
Item			-121.7820	20°	-121.782020°	
DWR ID	DWR_ST0	ST0009_01_f _ 2016_12				

#### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

#### Inspector Comment

#### Photo 1 of 2: SP\_2017\_ST0009\_286\_12\_20170315\_00004.jpg



View of a rodent hole along the levee crown.

* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown		II · I Inaccentable	A/W · Accentable but Monitor & Maintain	En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.16	Rating **	U	Issue No.		12 (cont)
LM End	2.16	Issue Type +	Ma	Location *		LS
Catagony	Category Earthen Levee				titud	le/Longitude
Calegory		Start		End		
Item	Animal Co	39.0281	37°	39.028137°		
пеш	item					-121.782020 °
DWR ID	DWR ID DWR_ST0009_01_f _ 2016_12					
	Comment Code					
	Comment Code					

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



Another view of the rodent holes along the crown and landside slope.

LM Start	2.19	Rating **	М	Issue No.		3
LM End	4.11	Issue Type +	En	Location *		LS
Category	Earthen L		GPS Latitude/Longitude			
Calegory						End
Item	Encroachments			39.0281	73 °	39.028012 °
пеш	-121.781475 ° -121.74566					
DWR ID	DWR ID DWR_ST0009_01_s _ 2012_3					·

Comment Code

PO: Pole

Inspector Comment



View of the PG&E poles along the landside crown of the levee.

LM Start	2.22	Rating **	М	Issue No.		17	
LM End	2.35	Issue Type +	En	Location *		WS	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start		End	
Item	Encroach	Encroachments			22 °	39.028127	0
Item				-121.78083	80 °	-121.778450	0
DWR ID	DWR_ST0009_01_s _ 2017_17						

Comment Code

DE : Debris

Inspector Comment

Remove the debris from the waterside slope and toe.



View of the debris along the waterside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.62	2 Rating ** M		Issue No.		18	
LM End	2.62	Issue Type +	En	Location *		WS	
Category	Earthen Levee					e/Longitude	
Calegory				Start		End	
Item	Encroach	ments	39.0280	° 08	39.028080 °		
пеш				-121.7734	42°	-121.773442 °	
DWR ID	R ID DWR_ST0009_01_s _ 2017_18						
		Comn	nent Coo	le			
TR : Tree of	or limb						
Inspector Comment							
Remove the tree from the waterside slope and toe.							



View of the tree along the waterside slope and toe.

LM Start	2.62	Rating **	М	Issue No.		19	
LM End	2.62	Issue Type +	En	Location *		WS	
Category	evee		GPS Latitude/Longitude				
Calegory		Start		End			
Item	Encroachments				80°	39.028080	
item	-121.773442 ° -121.773442 °						
DWR ID	DWR ID DWR_ST0009_01_s _ 2017_19						
		Comn	nont Coc	10			

DE: Debris

Inspector Comment

Remove the debris from the waterside slope and toe.



View of the debris along the waterside slope and toe.

LM Start	2.82	Rating **	М	Issue No.		20							
LM End	2.82	Issue Type +	En	Location *	* WS								
Category	Earthen L	evee		GPS La	atituc	de/Longitude							
Category	gory			Start		End							
Item	Encroach	ments	39.0280	47°	39.028047	0							
пеш				-121.7697	60°	-121.769760	0						
DWR ID	DWR_ST0	009_01_s _ 201	7_20										
		Comn	nent Coc	le									
TR : Tree	TR : Tree or limb												
	Inspector Comment												

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.92	Rating **	М	Issue No.		21	
LM End	2.92	Issue Type +	En	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.0280	18°	39.028018 °	
пеш				-121.7677	68°	-121.767768 °	
DWR ID DWR_ST0009_01_s _ 2017_21							
		Comn	nent Cod	le			
TR : Tree	or limb						
		Inspect	or Comm	nent			

No Photos

LM Start	3.60	Rating **	M	Issue No.		22	
LM End	3.60	Issue Type +	En	Location *		WS	
Category	Earthen L	.evee		GPS L	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.0279	920°	39.027920°	
пеш				-121.755190 °		-121.755190 °	
DWR ID	DWR_ST0	009_01_s _ 201	7_22				
		Comn	nent Cod	de			
TR : Tree	or limb						
Inspector Comment							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	3.65	Rating **	М	Issue No.		27	
LM End	3.65	Issue Type + En I		Location *		WS	
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study		39.02791	1 °	39.027911 °	
пеш				-121.75422	4 °	-121.754224 °	
DWR ID							

#### Comment Code

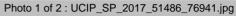
#### Inspector Comment

FS\_ID:51486 DS\_ID:16590 EP\_NO: 14740

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 Carsonite marker on WS missing. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on WS shoulder is still missing.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on WS shoulder is missing.5/7/2015 Marker on WS shoulder missing.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.5/12/2013 Carsonite marker on WS shoulder missing and should be replaced. FIELD\_STRUCT\_DESC: 4-inch steel gas pipe through the levee and under channel, 2.5 feet below the crown. Carsonite signes on both landside (LS) and waterside (WS) shoulder. Gas Wells 200 feet off of LS toe. (Permit No. 14740, 1988 - Nahama and Weagant Energy Co.) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 4/12/2017 9:21:13 AM

LM Start	3.65	Rating **	М	Issue No.	27 (cont)
LM End	3.65	Issue Type +	En	Location *	WS





Close up of LS marker

Photo 2 of 2: UCIP\_SP\_2017\_51486\_64220.jpg



Carsonite sign on LS shoulder with view of gas well in background.

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.02	Rating **	М	Issue No.		23		
LM End	4.02	Issue Type +	En	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroach	ments		39.0278	77°	39.027877°		
пеш				-121.7473	37°	-121.747337 °		
DWR ID	DWR_ST0	009_01_s _ 201	7_23					
		Comn	nent Coo	le				
TR : Tree	or limb							
		Inspecto	or Comm	nent				

No Photos

LM Start	4.35	Rating **	М	Issue No.		24	
LM End	4.35	Issue Type +	En	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Encroach	ments		39.0306	37°	39.030637 °	
item				-121.7430	23 °	-121.743023 °	
DWR ID	DWR_ST0	009_01_s _ 201	7_24				
		Comn	nent Cod	le			
DE : Debri	S						
Inspector Comment							
Remove the debris from the waterside slope and toe.							



View of the debris along the waterside slope and toe.

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.50	Rating **	М	Issue No.		28
LM End	4.50	Issue Type + En I		Location *		WS
Category	Supplemental					e/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		39.03280	1 °	39.032801°
пеш				-121.74336	o °	-121.743360°
DWR ID						·

#### Comment Code

#### Inspector Comment

FS\_ID:51487 DS\_ID:16855 EP\_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard -

afreitag)4/18/2016 Carsonite marker on LS slope is broke

off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.) [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 4/12/2017 9:22:54 AM

LM Start	4.50	Rating **	М	Issue No.	28 (cont)
LM End	4.50	Issue Type +	En	Location *	WS

# Photo 1 of 3: UCIP\_SP\_2017\_51487\_64235.jpg



Carsonite sign on LS slope.

#### Photo 2 of 3: UCIP\_SP\_2017\_51487\_64234.jpg



Carsonite sign on LS slope.

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.50	Rating **	M	Issue No.		28 (cont)	
LM End	4.50	Issue Type +	En	Location *	WS		
Category	ental	GPS La	atitud	le/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.0328	01°	39.032801	0
item				-121.7433	60°	-121.743360	0
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:51487 DS\_ID:16855 EP\_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard -

afreitag)4/18/2016 Carsonite marker on LS slope is broke

off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.) [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 4/12/2017 9:22:54 AM

#### Photo 3 of 3: UCIP\_SP\_2017\_51487\_76942.jpg



Close up of LS marker

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.50	Rating **	М	Issue No.		29
LM End	4.50	Issue Type +	En	Location *	WS	
Category	ental	GPS Lat	tud	e/Longitude		
Calegory				Start		End
Item	DWR UC	IP Field Study		39.03280	1°	39.032801°
item				-121.74336	°	-121.743360°
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:51488 DS\_ID:16589 EP\_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard afreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.) [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 4/12/2017 9:24:35 AM

#### LM Start 4.50 Rating \*\* Issue No. 29 (cont) 4.50 Issue Type + En Location \* WS LM End

## Photo 1 of 3: UCIP\_SP\_2017\_51488\_64233.jpg



Carsonite sign on LS slope.

#### Photo 2 of 3: UCIP\_SP\_2017\_51488\_64232.jpg



Carsonite sign on LS slope.

: Acceptable Minimally Acceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.50	Rating **	М	Issue No.		29 (cont)	
LM End	4.50	Issue Type +	En	Location *	WS		
Category				GPS La	itud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.03280	1°	39.032801	0
item				-121.74336	0°	-121.743360	0
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:51488 DS\_ID:16589 EP\_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/10/2017 LS marker still broken and there is no marker on the WS. (DWR Sutter Yard- AFreitag)10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard-afreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.) [Additional

Reference(s): DWR Levee Log, 1993] FS Date: 4/12/2017 9:24:35 AM Photo 3 of 3: UCIP\_SP\_2017\_51488\_76943.jpg



Close up of LS marker

#### **Unit Cover Sheet**

**Spring 2017 Levee Inspection Results** 

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles
Unit No. 02 Tisdale Bypass	Right	4.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/7/2017 - 4/7/2017			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

		D-+i: **		Innun Nin					
LM Start	0.11	Rating **	М	Issue No.		1			
LM End	0.26	Issue Type +	En	Location *	LS				
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory			Start		End				
ltem Encroachments			39.0237	60°	39.024559 °				
			-121.818875 °		-121.816344°				
DWR ID	DWR ID DWR_ST0009_02_s _ 2012_1								
		Comn	nent Cod	le					
DT : Ditch									
		Inspecto	or Comm	nent					
Monitor the	e ditch for	erosion.							

Photo 1 of 1 : SP\_2017\_ST0009\_287\_1\_20170315\_00001.jpg

View of the agricultural ditch along the landside toe.

LM Start	0.13	Rating **	М	Issue No.		7			
LM End	0.13	Issue Type +	En	Location *	LS				
Category Earthen Levee				GPS Latitude/Longitude					
Calegory				Start		End			
Item	Encroach	ments		39.0239	73 °	39.023973 °			
item				-121.8184	67°	-121.818467 °			
DWR ID	R ID DWR_ST0009_02_s _ 2017_7								
	Comment Code								

#### Comment Code

TR : Tree or limb

## Inspector Comment

Remove the tree from the landside slope and toe.

# Photo 1 of 1 : SP\_2017\_ST0009\_287\_7\_20170410\_00014.jpg



View of the tree along landside slope and toe.

LM Start	0.45	Rating **	М	Issue No.		8	
LM End	0.45	Issue Type +	En	Location *	WS		
Category Earthen Levee				GPS Lat	itud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.02563	5°	39.025635	0
item				-121.81297	5°	-121.812975	0
DWR ID	DWR_ST0	009_02_s _ 201	7_8				

TR : Tree or limb

#### Inspector Comment

Comment Code

Remove the tree from the waterside slope and toe.



View of the tree along the waterside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	0.69	Rating **	М	Issue No.		9		
LM End	0.71	Issue Type +	Ма	Location *	LS			
Category	GPS La	atitud	e/Longitude					
Calegory				Start		End		
Item	Erosion /	Erosion / Bank Caving			02 °	39.025657°		
пеш			-121.808527 °		-121.808027 °			
DWR ID DWR_ST0009_02_s _ 2017_9								
		Comn	nent Cod	le				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	ction.		
			_					
Inspector Comment								
Repair the erosion along the landside toe.								



View of the erosion along the landside toe from the County Road.

LM Start	0.97	Rating **	М	Issue No.		10		
LM End	0.98	Issue Type +	Ма	Location *	LS			
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory						End		
Item	Erosion / Bank Caving			39.0255	40°	39.025572 °		
item			-121.8032	72 °	-121.802990 °			
DWR ID	DWR ID DWR_ST0009_02_s _ 2017_10							
Comment Code								

E2 : Schedule repair of erosion site prior to the next inspection.

## Inspector Comment

Repair the erosion along the landside toe.

# Photo 1 of 1 : SP\_2017\_ST0009\_287\_10\_20170410\_00017.jpg



View of the erosion along the landside toe from the County Road.

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	1.14	Rating **	U	Issue No.		291			
LM End	1.14	Issue Type +	En	Location *	LS				
Category	Supplemental				GPS Latitude/Longitude				
Calegory				Start		End			
Item	DWR UC	IP Field Study		39.02550	3°	39.025503 °			
пеш				-121.80005	3°	-121.800053 °			
DWR ID									

#### Comment Code

#### Inspector Comment

FS ID:51489 DS\_ID:16594 EP NO: 267 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Erosion appears to be getting worse at the WS vault. It is starting to erode away the WS toe road. (DWR Sutter Yard- AFreitag)10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - afreitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe still present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection 10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted. FIELD\_STRUCT\_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both waterside (WS) and landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete "U" headwall. Siphon pipe under and across bypass, steel concrete encased. (Permit No. 267 & 290 -Sutter Basin Water Co.) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)].

FS Date: 4	/12/2017 9	9:26:22 AM			
LM Start	1.14	Rating **	U	Issue No.	291 (cont)
LM End	1.14	Issue Type +	En	Location *	LS

# Photo 1 of 3: UCIP\_SP\_2017\_51489\_64675.jpg

Slide gate at concrete outlet on LS toe.

#### Photo 2 of 3: UCIP\_SP\_2017\_51489\_64674.jpg



Slide gate at concrete outlet on LS toe.

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	1.14	Rating **	U	Issue No.	:	291 (cont)
LM End	1.14	Issue Type +	En	Location *	LS	
Category	ental	GPS Latitude/Longitude				
Calegory				Start		End
Item	DWR UC	P Field Study		39.02550	3 °	39.025503°
пеш				-121.80005	3 °	-121.800053 °
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:51489 DS\_ID:16594 EP\_NO: 267 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Erosion appears to be getting worse at the WS vault. It is starting to erode away the WS toe road. (DWR Sutter Yard- AFreitag)10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - afreitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe stil present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted. FIELD\_STRUCT\_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both waterside (WS) and landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete "U" headwall. Siphon pipe under and across bypass, steel concrete encased. (Permit No. 267 & 290 -Sutter Basin Water Co.) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)]FS Date: 4/12/2017 9:26:22 AM

Photo 3 of 3 : UCIP\_SP\_2017\_51489\_64673.jpg



Concrete box, vent, and 54-inch steel pipe in WS toe.

LM Start	1.14	Rating **	М	Issue No.		13
LM End	1.14	Issue Type +	Ma	Location *	WS	
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Erosion /	Bank Caving		39.02546	60°	39.025460 °
пеш			-121.80002	22 °	-121.800022 °	
DWR ID	DWR_ST0	009_02_f _ 2016	5_13			

#### Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

Erosion around the WS concrete vault.

#### Photo 1 of 2: SP\_2017\_ST0009\_287\_13\_20170315\_00005.jpg



View of the erosion along the concrete vault.

* Location		** Rating		+ Issue Type
LS: Land Side N	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	1.14	Rating **	М	Issue No.	13 (cont)		
LM End	1.14	Issue Type +	Ma	Location *		WS	
Catagony	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory	Category			Start		End	
Item	Erosion / Bank Caving			39.0254	60°	39.025460 °	
пеш				-121.8000	22 °	-121.800022 °	
DWR ID	DWR_ST0	009_02_f _ 2016	6_13				
		Comn	nent Coo	le			
E2 : Sched	E2 : Schedule repair of erosion site prior to the next inspection.						
		Inspecto	or Comm	nent			

Photo 2 of 2 : SP\_2017\_ST0009\_287\_13\_20170315\_00006.jpg

Another view of the erosion along the concrete vault.

LM Start	1.19	Rating **	М	Issue No.		290
LM End	1.19	Issue Type +	Ma	Location *	WS	
Earthen Levee			GPS La	atitud	e/Longitude	
Category			Start		End	
Item	Erosion /	Bank Caving		39.0254	90°	39.025490 °
item			-121.7992	40°	-121.799240 °	
DWR ID DWR_ST0009_02_s _ 2015_290						
		Comn	nent Cod	le		

E1 : Note and monitor erosion site.

Erosion around the WS concrete vault.

#### Inspector Comment

Sutter Yard needs to monitor the erosion along the berm.



View of the erosion along the waterside berm.

Photo 1 of 1: SP\_2017\_ST0009\_287\_4\_20170315\_00003.jpg

LM Start	1.29	Rating **	М	Issue No.		4
LM End	1.29	Issue Type +	Ma	Location *		WS
Cotogon/ Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End
Item	Erosion /	Bank Caving		39.0254	78°	39.025478°
пеш				-121.7972	32 °	-121.797232 °
DWR ID	DWR_ST0	009_02_s _ 201	3_4			

#### Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

Sutter Yard needs to monitor the erosion.



View of the erosion along the waterside berm.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	1.48	Rating **	М	Issue No.		5
LM End	1.50	Issue Type +	Ma	Location *		WS
Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Erosion /	Bank Caving		39.0254	60 °	39.025446°
пеш				-121.7938	15 °	-121.793347°
DWR ID DWR_ST0009_02_s _ 2013_5						
		Comn	nent Cod	le		
E2 : Scheo	dule repair	of erosion site	e prior to	the next in	spec	ction.
		Inspecto	or Comm	nent		
Sutter Yard needs to monitor the erosion.						



View of the erosion along the waterside berm.

LM Start	2.80	Rating **	М	Issue No.		11	
LM End	2.80	Issue Type +	En	Location * WS		WS	
Catagoni Earthen Levee			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	Encroach	ments		39.0252	73 °	39.025273	0
iteiii				-121.7692	15 °	-121.769215	0
DWR ID	DWR_ST0	009_02_s _ 201	7_11				

Comment Code

TR: Tree or limb

Inspector Comment

No Photos

LM Start	3.30	Rating **	М	Issue No.		12	
LM End	3.30	Issue Type +	En	Location *		WS	
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Encroach	ments		39.0252	20°	39.025220	0
пеш				-121.7600	17 °	-121.760017	0
DWR ID	DWR_ST0	009_02_s _ 201	7_12				
		Comn	nent Coc	10			

TR : Tree or limb

Inspector Comment

Remove the tree from the waterside slope and toe.



View of the tree along the waterside slope and toe.

* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	3.75	Rating **	М	Issue No.		14
LM End	3.75	Issue Type +	En	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End
Item	Encroach	ments		39.0251	10°	39.025110°
пеш				-121.7515	13 °	-121.751513°
DWR ID	DWR_ST0	009_02_s _ 201	7_14			
		Comn	nent Cod	le		
TR : Tree	or limb					
		Inspecto	or Comm	nent		

No Photos

LM Start	3.93	Rating **	М	Issue No.		2	
LM End	3.93	Issue Type +	Ма	Location *		WS	
Earthen Levee			GPS La	atitud	e/Longitude		
Category				Start		End	
Item	Erosion /	Bank Caving		39.0250	60°	39.025060 °	
пеш	item				78 °	8° -121.748178°	
DWR ID	DWR_ST0	009_02_f _ 2016	6_2				
		Comn	nent Cod	de			
E1 : Note a	and monito	or erosion site					
		Inspecto	or Comm	nent			



View of the erosion along the waterside berm.

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.20	Rating **	М	Issue No.		292	
LM End	4.20	Issue Type +	En	Location *	WS		
Category			GPS Latitude/Longitude				
Category			Start		End		
DWR UCIP Field Study		39.02407	9°	39.024079			
item				-121.74342	0 °	-121.743420 °	
DWR ID						·	

#### Comment Code

#### Inspector Comment

FS\_ID:51491 DS\_ID:23099 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013.(DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/17/2012 Need to identify permit for crossing.

FIELD\_STRUCT\_DESC: Unknown size natural gas pipeline through the levee at an unknown depth below the crown. Markers visible on the landside (LS) shoulder and toe and waterside (WS) shoulder and toe. No permit has been identified since crossing was field discovered in 2012.

FS Date: 4/12/2017 9:30:05 AM

LM Start	4.20	Rating **	М	Issue No.	292 (cont)
LM End	4.20	Issue Type +	En	Location *	WS

#### Photo 1 of 3: UCIP\_SP\_2017\_51491\_64681.jpg



Marker on LS shoulder and toe

#### Photo 2 of 3: UCIP\_SP\_2017\_51491\_64680.jpg



Marker on WS shoulder

## Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	4.20	Rating **	М	Issue No.	292 (cont)		
LM End	4.20	Issue Type +	En	Location *	WS		
Category			GPS Latitude/Longitude				
Calegory				Start		End	
DWR UCIP Field Study		39.0240	79°	39.024079	0		
item				-121.7434	20°	-121.743420	0
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:51491 DS\_ID:23099 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013.(DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/17/2012 Need to identify permit for crossing.

FIELD\_STRUCT\_DESC: Unknown size natural gas pipeline through the levee at an unknown depth below the crown. Markers visible on the landside (LS) shoulder and toe and waterside (WS) shoulder and toe. No permit has been identified since crossing was field discovered in 2012.

FS Date: 4/12/2017 9:30:05 AM

#### Photo 3 of 3: UCIP\_SP\_2017\_51491\_64679.jpg



Marker on WS toe